J201
C206
US
US
U100
U300
R402
R414
R404
R405
R403
R417
C505
R406
C409
R412
R411
R410
C411
R413
CR402
J400
C208
L201
R209
C203
R203
R208
R201
R206
R204
Q200
C503
C103
C102
C104
L101
R205
R207
C202
R202
L107
Q201
R200
CR200
C207
L200
CR201
C201
C205
L203
C200
L202
L100
Y100
R102
C130
C109
C101
C100
R101
C111
C129
C105
C107
C112
U101
R628
R103
R319
C132
L104
C300
C114
C116
C118
R524
R522
CR502
R521
R620
CR501
Q500
R519
Q400
U614
C502
R511
R502
P106
U615
U616
R516
R500
R518
R517
R514
C506
C507
U511
Q404
Q402
R408
C412
C410
R400
C402
C407
Q401
U402
L402
C414
L401
C405
C400
C401
L400
C403
C406
R401
C408
R416
R409
U400
R415
U401
R510
Q403
C404
U500
U501
U502
L500
R529
C413
C608
C601
C609
CR500
R501
C501
P107
U600
U610
J500
R525
R526
R506
R505
U602
C322
R608
U604
U605
U603
U606
C106
C108
C110
C131
C113
C115
C117
C119
P103
C133
U102
U103
U104
U105
U106
U107
U108
U109
C143
C301
U302
C145
P102
C120
C121
C122
C123
C124
C125
C126
C127
L102
C600
L600
R607
R601
C611
L603
R600
C604
C606
C605
R603
R602
C612
Y600
C603
L602
C607
C602
U612
U607
U613
U601
R604
L604
R606
U609
U608
U509
U510
R523
R507
R512
P100
R508
U505
U504
C500
U503
R509
R515
R503
R604
R605
U611
R300
L501
R527
C508
U507
U506
U508
R513
C320
R311
R340
C308
R313
C307
C309
R312
C310
R314
C315
R320
C306
R307
C304
R309
C305
R308
L103
R310
C303
R315
C311
R316
C312
P105
C610
P109
C128
R343
C321
R341
R342
R321
R323
R324
R322
R339
R334
L309
L308
R332
R331
L310
L311
L312
L313
C313
C134
L105
L113
C137
L111
C136
C135
L106
C139
L110
C140
C142
L112
L108
L109
C138
C141
Q301
C317
Q300
J300
R338
R337
R333
R336
R335
J100
R306
R330
R302
C331
R318
C314
R317
C319
L114
L115
P101


U100
TMS 9918A
SH4-U507-6
SH4-U506-13
SH2-U600-10
SH3-U300-18
SH2-U600-41
SH2-U600-42
SH2-U600-43
SH2-U600-44
SH2-U600-45
SH2-U600-46
SH2-U600-47
SH2-U600-48
GRMCK
SH4-U101-3
-RST9918
SH2-U601-4
SGCCK
SH4-U511-14
SNDOUT
SH4-U503
U108
U107
U106
U105
U103
U108
U104
U102
TMS 4116
16K X 1
J201
MOLEX
XMFR
POWER SUPPLY
COMPV
+12VID
+5VID
-5VID

TMS 9900
74LS 362
MCM 6810P U608
MCM 6810P U609
TMS 4732/2532 U610
TMS 4732/2532 U611
74LS245 U614
74LS 373 U615
74LS 244 U616
74LS194 U613
TO VDP SH1
EVEN
ODD
3.00 MHZ
48.0000 MHZ
SYNCHD
READY
START




U300
TMS
9901
156
JOYSTICK PORT
J300
KEYBOARD
J100
J400 TAPE CASSETTE
CAS CNTRL 1
CAS CNTRL 2
MAG IN
MAG OUT
U401
U402
TIL119
U400
Q300
Q301
Q400
Q401
Q403
Q404
Q407
SH2 U600 6
SH5 GP-6/R525
SH2 U600-31
SH2 U600 60
SH2 U600-30
SH2 U600-14
SH2 U600-13
SH2 U600-12
SH2 U600-11
SH2 U600-10
SH5 I/O PORT 4
SH1 U100 16
SH2 U600 32
SH2 U601 7
SH2 U607 11
SH4 U511 8
CRU IN
CRU CLK
CRU OUT
VCC
VSS
+5V




*SN76489 USES 3.58 MHZ CLOCK SUPPLIED THRU W104 COAX
SN94624 USES 447 KHZ SUPPLIED THRU W502




GROM PORT
I/O PORT
LSB
MSB
(LSB)
(MSB)
U509
74LS367
U503
74LS367
U510
74LS244
VCC
VSS
G
+5I
-6V
A 15/CRU OUT
-CRU CLK
CRUIN
-LOAD
HOLD/IAQ
RESET
-EXT INT
-WE
-Φ3
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
R512 62
R506 62
R505 62
R607 62
R509 4.7K
R300 4.7K
R525 100
R523 100
R526 100
R524 100
SH4-U500-11
SH2-U600-10
SH2-U600-21
SH2-U612-11
U600-22
U600-23
U600-24
U601-7
U606-3
SH2-U602-12
SH4-U505-1, U506-5
SH4-U506-2
SH4-U505-3
SH3-U300-4
SH2-U600-4
SH2-U605-6
SH2-U508-6
SH3-U300-17

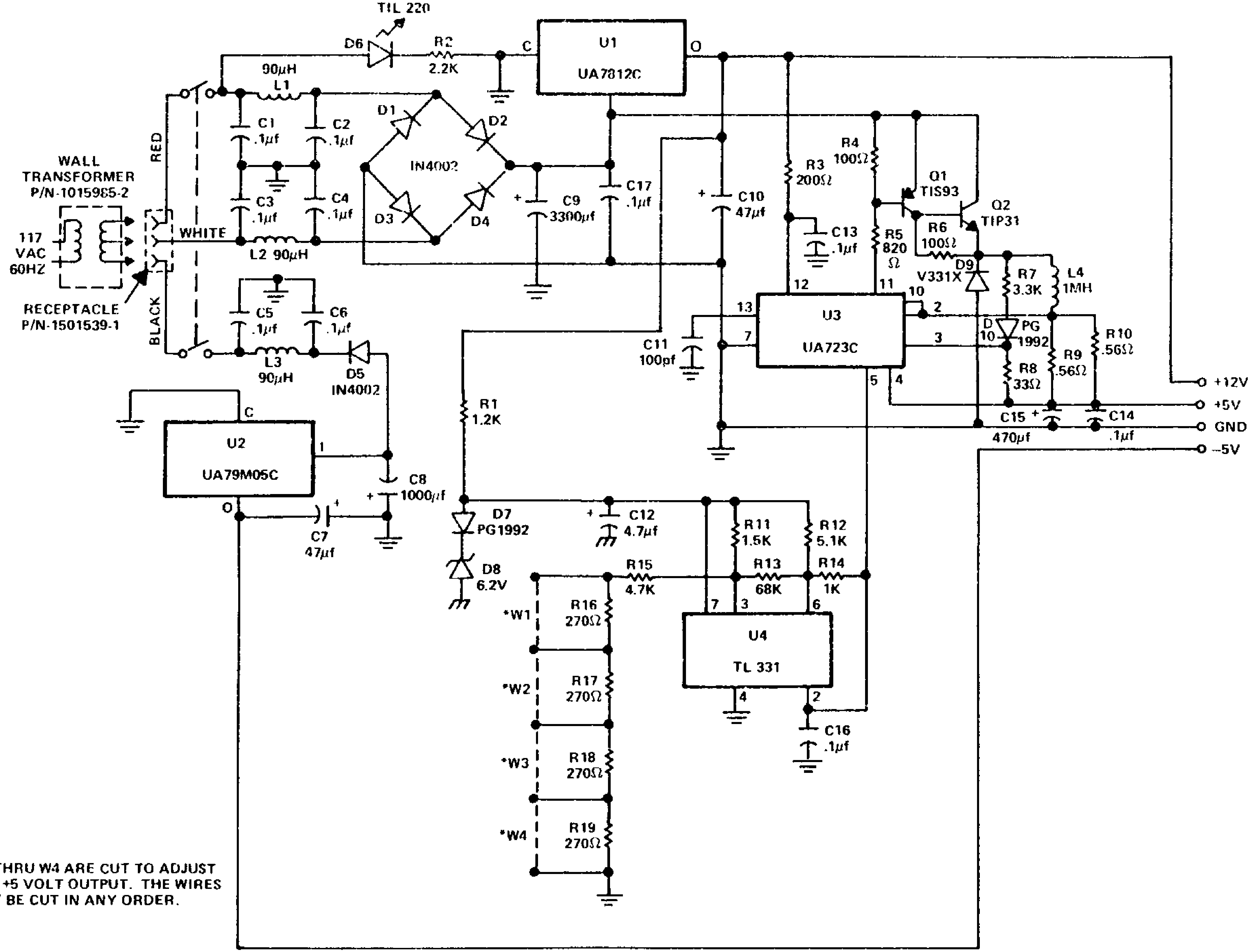


NOTE ALL RESISTORS ARE 47Ω


P2
FLEX CABLE CONNECTOR
P1
PERIPHERAL EXPANSION BUS
RS 1 - 8 ARE 47Ω
RS 9 - 15 ARE 47Ω
U1
U2
U3
U4
Q2 2N3904
CR1
R18 100Ω
R16 1K
R17 47Ω
R19 10K
Q1 78M06
IN
OUT
COMMON
C8 22μf
C9 22μf
U1 74LS244
U2 74LS244
U3 74LS244
U4 74LS245
D0
D1
D2
D3
D4
D5
D6
D7
DBIN
A02
A01
A00
MEMEN
A03
A04
A05
A06
A07
A08
A09
A10
A11
A12
A13
A14
A15/CRUOUT
WE
CRUCLK
RDBENA.A
RESET
PH3 (CLK OUT)
RDBENA.B
RDBENA
CRUIN
EXTINT (INTA)
AUDIO IN
GROUND
READY
UNREGULATED +8
UNREGULATED +16
UNREGULATED -16

1. *SYMBOL FOR FERRITE





*W1 THRU W4 ARE CUT TO ADJUST THE +5 VOLT OUTPUT. THE WIRES MAY BE CUT IN ANY ORDER.